# Mallari, Patricia

From:

È. .......

Horrigan, Jeanne (ASRC)

Sent:

Monday, February 27, 2006 4:16 PM

To:

Mallari, Patricia Subject:

SEARCH RESULTS FOR SERIAL 10/089835

Hi Patricia,

Attached are the search results for the link between diabetes and cyanide/isopropanol and breath tests. I found several items that looked relevant and I underlined the titles of these. However, I recommend that you still review all of the results.

I did not do another inventor search since one was done during the first search. Also, I limited results to those references published before 10/6/2000 (except for patents).



10089835.rtf

I hope the results are useful. Please feel free to contact me if you have any questions or want additional searching on this application.

Best regards, Jeanne Horrigan ASRC Searcher EIC3700 Phone 23529

Serial 10/089835 February 27, 2006

L14

## NON-PATENT LITERATURE

(FILE 'HOME' ENTERED AT 10:30:19 ON 27 FEB 2006) FILE 'REGISTRY' ENTERED AT 10:30:33 ON 27 FEB 2006 E CYANIDE/CN L1 1 S E3 E ISOPROPANOL/CN 1 S E3 L2 FILE 'HCAPLUS, MEDLINE, BIOSIS, EMBASE' ENTERED AT 10:34:05 ON 27 FEB 2006 E DIABETES L3 730124 S DIABETES 79905 S L1 OR L2 L4160505 S CYANIDE OR ISOPROPANOL OR ISPROPYL ALCOHOL L5 623 S L3 AND (L4 OR L5) L6 343610 S BREATH? OR EXHAL? OR EXPIR? L7 L8 12 S L6 AND L7 12 DUPLICATE REMOVE L8 (0 DUPLICATES REMOVED) L9 254150 S L3/TI L10 33474 S L5/TI L11 13 S L10 AND L11 L12 L13 13 S L12 NOT L8

## L9 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1988:33109 HCAPLUS

DOCUMENT NUMBER: 108:33109

TITLE: Detection of endogenous acetone in normal human

10 DUPLICATE REMOVE L13 (3 DUPLICATES REMOVED)

\*\*\*breath\*\*\*

AUTHOR(S): Phillips, Michael; Greenberg, Joel

CORPORATE SOURCE: Dep. Med., Chicago Med. Sch., North Chicago, IL,

60064, USA

SOURCE: Journal of Chromatography (1987), 422, 235-8

CODEN: JOCRAM; ISSN: 0021-9673

DOCUMENT TYPE: Journal LANGUAGE: English

A GC-flame-ionization detection assay was highly sensitive and specific for endogenous Me2CO in normal human \*\*\*breath\*\*\* . The mean concn. in normal subjects (23.2 nmol/L) was similar to the mean value of  $1.1 \, .mu.g/L$ (18.9 nmol/L) obsd. by R. D. Stewart and E. A. Boettner (1964). In practice, the method was highly acceptable to the subjects, with the advantage that samples could be collected at sites remote from the lab. In addn., the use of an internal std. in the collection bag minimized potential errors that might have arisen from leakage of the \*\*\*breath\*\*\* sample prior to the assay. The concn. of Me2CO in the \*\*\*breath\*\*\* greatly increased in severe ketoacidosis. However, comparatively little attention has been paid to the derangements of acetone metab. which might accompany the milder degrees of ketoacidosis seen in \*\*\*diabetes\*\*\* mellitus, starvation or alc. intoxication. This assay provides a new and potentially useful research tool for the investigation of these conditions.

# L9 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1973:3110 HCAPLUS

DOCUMENT NUMBER: 78:3110

'ASRC Searcher: Jeanne Horrigan

Serial 10/089835 February 27, 2006

TITLE: Gas-chromatographic studies of human volatile

metabolites in reduced diets and starvation

AUTHOR(S): Savina, V. P.; Stepanov, L. N.; Sokolov, N. L.;

Nefedov, Yu. G.

CORPORATE SOURCE: USSR

SOURCE: Kosmicheskaya Biologiya i Meditsina (1972), 6(5), 67-9

CODEN: KBMEAL; ISSN: 0023-4192

DOCUMENT TYPE: Journal LANGUAGE: Russian

AB Volatile compds. were studied in the urine, saliva, and \*\*\*expired\*\*\* air from humans starved completely for 20 days and or on restricted diets (600 or 1800 kcal/day). With a restricted diet, the amt. of Me2CO in urine increased 200-fold and with complete starvation 400-fold. With complete starvation, MeCHO in urine increased 16-fold and EtOH 3-fold; other changes in urinary volatiles were not found. With complete starvation, Me2CO in the saliva increased 400-fold, MeCHO 16-fold, MeOH 100-fold, iso-PrOH 50-fold, EtOH 3-fold, and PrOH 5-fold; Me2CO in

\*\*\*expired\*\*\* air increased 200-fold and MeEtCO and EtOH 3-5-fold.

\*\*\*Expired\*\*\* air from diabetic patients contained 2-3-fold more Me2CO,
and from subjects with pulmonary cancer up to 2-fold more NH3 and NH4+
compds. and much less CO2 (<2 mg/m3) and hydrocarbons (<1 mg/m3) than air
from healthy humans.

# L9 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1958:31359 HCAPLUS

DOCUMENT NUMBER: 52:31359
ORIGINAL REFERENCE NO.: 52:5652b-d

TITLE: Circulation, respiration, and oxygen saturation of the

blood in \*\*\*cyanide\*\*\* poisoning

AUTHOR(S): Mercker, H.; Lochner, W.; Gerstenberg, E.

CORPORATE SOURCE: Univ. Gottingen, Germany

SOURCE: Naunyn-Schmiedebergs Archiv fuer Experimentelle

Pathologie und Pharmakologie (1958), 232, 459-69

CODEN: AEPPAE; ISSN: 0365-2009

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

AB Dogs were given an infusion of KCN at the rate of 0.08 mg./kg./min. The mean survival time was 28 .+-. 1.2 min. (n = 15). The mean arterial blood pressure remained rather const. for a long period of infusion and dropped rapidly as death approached. The O satn. of the arterial blood did not change appreciably. This is explained by the fact that the O consumption is lowered as the pulmonary ventilation decreases. The O satn. of the mixed venous blood and of the coronary sinus blood was increased during the infusion. The arterial lactic acid increased and the arterio-venous difference in lactic acid of the heart muscle was always increased after 6 min. of infusion. The beneficial effect of O \*\*\*breathing\*\*\* is explained by the O dissolved in the plasma, since KCN blocks the cytochrome oxidase.

## L9 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:25616 HCAPLUS

DOCUMENT NUMBER: 134:83064

TITLE: Methods of use for sensor-based fluid detection

'ASRC Searcher: Jeanne Horrigan

Serial 10/089835 February 27, 2006

## devices

INVENTOR(S):

Lewis, Nathan S.

PATENT ASSIGNEE(S):

California Institute of Technology, USA

SOURCE:

U.S., 48 pp., Cont.-in-part of U.S. 6,010,616.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION: DAMENIO NO

	PATENT NO.			KIND		DATE			APPLICATION NO.										
		6170				В1		2001										.9981	
		5571				A		1996						1108				19950	
		9508				A2		1999						2025				19960	
		9508				A3		2002					, , .	-025	, ,		•		520
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		5951				A		1999						5142				19980	
		6013				A		2000	0111					9537				19980	
	US	5891	398			А		1999	0406						04			19980	916
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	WO 2000026638			A1	A1 20000511				WO 1999-US25544										
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			CZ,	DE,	DK,	DM,	EE,	, ES,	FI,	GB,	GI	o, e	ΞE,	GH,	GM,	HR,	HU,	ID,	IL,
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			SK,	SL,	ТJ,	TM,	TR,	TT,	ΤZ,	UA,	UC	3, C	JS,	UZ,	VN,	YU,	ZA,	ZW	
		RW:	GH,	GM,	ΚE,	LS,	MW,	, SD,	SL,	SZ,	TZ	Ζ, ΰ	JG,	ZW,	ΑT,	BE,	CH,	CY,	DE,
			DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU	J, M	1C,	NL,	PT,	SE,	BF,	BJ,	CF,
			CG,	CI,	CM,	GA,	GN,	, GW,											
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		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GF	R, I	Т,	LI,	LU,	NL,	SE,	MC,	PT,
					LT,	LV,	FI,	, RO											
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														9105				19960	
														5295				19960	
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A system for detecting an analyte in a fluid is described comprising a substrate having a sensor comprising a first org. material and a second org. material where the sensor has a response to permeation by an analyte. A detector is operatively assocd. with the sensor. Further, a fluid delivery appliance is operatively assocd. with the sensor. The sensor

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> device has information storage and processing equipment, which is operably connected with the device. This device compares a response from the detector with a stored ideal response to detect the presence of analyte. An integrated system for detecting an analyte in a fluid is also described where the sensing device, detector, information storage and processing device, and fluid delivery device are incorporated in a substrate. Methods for use for the above system are also described where the first org. material and a second org. material are sensed and the analyte is detected with a detector operatively assocd. with the sensor. The method provides for a device, which delivers fluid to the sensor and measures the response of the sensor with the detector. Further, the response is compared to a stored ideal response for the analyte to det. the presence of the analyte. In different embodiments, the fluid measured may be a gaseous fluid, a liq., or a fluid extd. from a solid. Methods of fluid delivery for each embodiment are accordingly provided. The sensor assembly is used to detect analytes indicative of disease, of exposure to toxic substances, of spoiled food, of air quality, of noxious poisonous vapors, etc. The sensor may be incorporated into bandages.

REFERENCE COUNT: 89 THERE ARE 89 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 1 OF 10 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

ACCESSION NUMBER:

1992:272901 BIOSIS

DOCUMENT NUMBER:

PREV199242131851; BR42:131851

TITLE:

THE ROLE OF \*\*\*CYANIDE\*\*\* INGESTION IN TROPICAL

MALNUTRITION AND THE \*\*\*DIABETES\*\*\* ASSOCIATED WITH IT.

AUTHOR(S):

MACMILLAN D E [Reprint author]

CORPORATE SOURCE:

STATE FLA DIABETES CENT, UNIV S FLA, TAMPA, FLA 33612, USA Int. Congr. Ser. - Excerpta Med., (1991) pp. 955-959.

SOURCE:

RIFKIN, H., J. A. COLWELL AND S. I. TAYLOR (ED.).

INTERNATIONAL CONGRESS SERIES, 1000. DIABETES 1991; 14TH INTERNATIONAL DIABETES FEDERATION CONGRESS: WASHINGTON, D.C., USA, JUNE 23-28, 1991. XXIX+1337P. ELSEVIER SCIENCE PUBLISHERS B.V.: AMSTERDAM, NETHERLANDS; (DIST. IN THE USA AND CANADA BY ELSEVIER SCIENCE PUBLISHING CO., INC.: NEW

YORK, NEW YORK, USA). ILLUS. MAPS.

Publisher: Series: International Congress Series. CODEN: EXMDA4. ISSN: 0531-5131. ISBN: 0-444-89254-0.

DOCUMENT TYPE:

Book

Conference; (Meeting)

FILE SEGMENT:

BR

LANGUAGE:

ENGLISH

ENTRY DATE:

Entered STN: 31 May 1992

Last Updated on STN: 1 Jun 1992

L14 ANSWER 2 OF 10 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN

ACCESSION NUMBER: 1986:270644 BIOSIS

DOCUMENT NUMBER:

PREV198631015564; BR31:15564

TITLE:

HYPERGLYCEMIA AND CHRONIC EXPOSURE TO SUBLETHAL DIETARY \*\*\*CYANIDE\*\*\* DOES REGULAR CASSAVA MANIHOT-ESCULENTA

EATING PREDISPOSE TO \*\*\*DIABETES\*\*\*

AUTHOR(S):

JACKSON L [Reprint author]

CORPORATE SOURCE:

UNIV CALIF, BERKELEY, CALIF, USA

'ASRC Searcher: Jeanne Horrigan

Serial 10/089835 February 27, 2006

SOURCE:

American Journal of Physical Anthropology, (1986) Vol. 69,

No. 2, pp. 218.

Meeting Info.: FIFTY-FIFTH ANNUAL MEETING OF THE AMERICAN ASSOCIATION OF PHYSICAL ANTHROPOLOGISTS, ALBUQUERQUE, N.M.,

USA, APR. 9-12, 1986. AM J PHYS ANTHROPOL. CODEN: AJPNA9. ISSN: 0002-9483.

DOCUMENT TYPE:

Conference; (Meeting)

FILE SEGMENT:

LANGUAGE:

ENGLISH

ENTRY DATE:

Entered STN: 28 Jun 1986

Last Updated on STN: 28 Jun 1986

Serial 10/089835 February 27, 2006 File 155:MEDLINE(R) 1951-2006/Feb 27 (c) format only 2006 Dialog File 5:Biosis Previews(R) 1969-2006/Feb W3 (c) 2006 BIOSIS 73:EMBASE 1974-2006/Feb 27 File (c) 2006 Elsevier Science B.V. 94:JICST-EPlus 1985-2006/Dec W1 (c) 2006 Japan Science and Tech Corp(JST) File 144: Pascal 1973-2006/Feb W1 (c) 2006 INIST/CNRS Set Items Description S1 85954 CYANIDE OR CYANIDES OR CARBON() NITRIDE OR HYDROCYANIC() ACID OR ISOCYANIDE OR NITRILE() ANION? ? OR CYANAMIDE OR FERROCYAN-IDE S2 RN=57-12-511869 S3 ISOPROPANOL OR ISOPROPYL() ALCOHOL OR 1() (METHYLETHANOL OR -METHYL()ETHANOL OR METHYLETHYL()ALCOHOL OR METHYL()ETHYL()ALC-OHOL) OR 2() (PROPANOL OR HYDROXYPROPANE OR PROPYL() ALCOHOL) S4 ALCOJEL OR ALCOSOLVE OR AUTOSEPT OR AVANTIN OR AVANTINE OR COMBI() SCHUTZ OR DIMETHYLCARBINOL OR DIMETHYL() CARBINOL OR HA-RTOSOL OR IMSOL OR ISO() (PROPANOL OR PROPYL() ALCOHOL) OR ISOP-ROPYL() ALCOHOL OR ISOHOL OR LUTOSOL OR PETROHOL OR PROPOL OR -SEC() (PROPANO S5 5905 (CH3) 2CH20 OR RN=67-63-0 875846 S6 DIABET??? S7 351076 BREATH? OR EXHALE? ? OR EXHALING OR EXHALATION OR EXPIR? S8 5 S1:S5 AND S6 AND S7 5 S9 RD (unique items) S10 40293 DS 241 S1:S5(S)S6 S11 232 S1:S5/TI, DE AND S6/TI, DE S12 (Item 2 from file: 155) DIALOG(R) File 155: MEDLINE(R) (c) format only 2006 Dialog. All rts. reserv. 11185496 PMID: 7595310 Biotransformation of acetone to isopropanol observed in a motorist involved in a sobriety check. Jones A W; Andersson L Department of Alcohol Toxicology, University Hospital, Linkoping, Sweden. Journal of forensic sciences (UNITED STATES) Jul 1995, 40 (4) p686-7 ISSN 0022-1198 Journal Code: 0375370 Publishing Model Print Document type: Case Reports; Journal Article Languages: ENGLISH Main Citation Owner: NLM Record type: MEDLINE; Completed We report the identification of acetone (0.45 mg/mL) and isopropanol (0.17 mg/mL) but without the presence of ethanol in a blood sample from a man suspected of driving under the influence of alcohol. A preliminary screening test with an electrochemical instrument (Alcolmeter S-L2) was positive and an evidential breath -test with a dual wavelength infrared analyzer (Intoxilyzer 5000), recognized the presence of an interferant in the subject's **breath**. The man admitted drinking moderate

amounts of **alcohol** (vodka) the previous evening and was being treated by his doctor for **hyperglycemia** by special dietary control. This case scenario

'ASRC Searcher: Jeanne Horrigan

provides a good example of severe metabolic ketoacidosis in an ostensibly healthy man driving on the highway. Biotransformation of the abnormally high concentration of blood-acetone to **isopropanol** occurs through the **alcohol** dehydrogenase pathway.

Record Date Created: 19951207
Record Date Completed: 19951207

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(Item 1 from file: 73)
 9/9/3
DIALOG(R) File 73: EMBASE
(c) 2006 Elsevier Science B.V. All rts. reserv.
05006737
            EMBASE No: 1992146953
  Hypotensive anaesthesia
  Simpson P.J.
  Department of Anaesthetics, Frenchay Hospital, Bristol BS16 1LE United
  Current Anaesthesia and Critical Care ( CURR. ANAESTH. CRIT. CARE ) (
  United Kingdom) 1992, 3/2 (90-97)
  CODEN: CCCAE
               ISSN: 0953-7112
  DOCUMENT TYPE: Journal; Short Survey
  LANGUAGE: ENGLISH
                    SUMMARY LANGUAGE: ENGLISH
BRAND NAME/MANUFACTURER NAME: arfonad; ansolysen; alloferin
DRUG DESCRIPTORS:
alcuronium--pharmacology--pd; antihypertensive agent; atenolol
--pharmacology--pd; chlorpromazine--pharmacology--pd; droperidol
--pharmacology--pd; enflurane--pharmacology--pd; glyceryl trinitrate
--pharmacology--pd; glyceryl trinitrate--pharmacokinetics--pk; halothane
--pharmacology--pd; isoflurane--pharmacology--pd; labetalol--pharmacology
--pd; nitroprusside sodium--pharmacology--pd; nitroprusside sodium
--pharmacokinetics--pk; nitroprusside sodium--drug dose--do; nitroprusside
sodium--adverse drug reaction--ae; oxprenolol--pharmacology--pd;
pentolonium tartrate--pharmacology--pd; pentolonium tartrate--adverse drug
reaction--ae; pentolonium tartrate--drug dose--do; pentolonium tartrate
--drug comparison--cm; phenoxybenzamine--pharmacology--pd; phentolamine
--pharmacology--pd; practolol--pharmacology--pd; propranolol--pharmacology
--pd; propranolol--drug dose--do; trimetaphan--drug comparison--cm;
trimetaphan--drug administration--ad; trimetaphan--adverse drug reaction
--ae; trimetaphan--pharmacology--pd; trimetaphan--pharmacokinetics--pk;
trimetaphan--drug dose--do; tubocurarine chloride--pharmacology--pd
MEDICAL DESCRIPTORS:
*anesthesia; *hypotension--etiology--et
antihypertensive activity; arterial pressure; blood pressure monitoring;
body posture; cyanide poisoning--side effect--si; diabetes mellitus;
drug contraindication; epidural anesthesia; general anesthesia; human;
hypertension; intermittent positive pressure ventilation; intravenous drug
administration; ischemic heart disease; lung gas exchange; mydriasis--side
effect--si; oral drug administration; patient monitoring; positive end
expiratory pressure; respiratory tract disease; short survey; spinal
anesthesia; tachycardia--side effect--si
CAS REGISTRY NO.: 15180-03-7, 23214-96-2 (alcuronium); 29122-68-7 (atenolol
    ); 50-53-3, 69-09-0 (chlorpromazine); 548-73-2 (droperidol); 13838-16-9
    (enflurane); 55-63-0 (glyceryl trinitrate); 151-67-7, 66524-48-9 (
    halothane); 26675-46-7 (isoflurane); 32780-64-6, 36894-69-6 (labetalol)
    ; 14402-89-2, 15078-28-1 (nitroprusside sodium); 22972-97-0, 6452-71-7,
    6452-73-9 (oxprenolol); 144-44-5, 52-62-0 (pentolonium tartrate);
    59-96-1, 63-92-3 (phenoxybenzamine); 50-60-2, 73-05-2 (phentolamine);
```

'ASRC Searcher: Jeanne Horrigan Serial 10/089835 February 27, 2006 6673-35-4 (practolol); 13013-17-7, 318-98-9, 3506-09-0, 4199-09-1, 525-66-6 (propranolol); 68-91-7, 7187-66-8 (trimetaphan); 57-94-3, 57-95-4, 8006-51-7 (tubocurarine chloride) SECTION HEADINGS: 024 Anesthesiology 030 Clinical and Experimental Pharmacology 037 Drug Literature Index 038 Adverse Reaction Titles 9/9/4 (Item 2 from file: 73) DIALOG(R) File 73: EMBASE (c) 2006 Elsevier Science B.V. All rts. reserv. EMBASE No: 1982061472 Boquist L.; Nelson L. 1981, 98/Suppl.245 (14) CODEN: ACEDA DOCUMENT TYPE: Journal LANGUAGE: ENGLISH DRUG DESCRIPTORS: rotenone; \*succinic acid; \*thiol group MEDICAL DESCRIPTORS:

Pathogenesis of alloxan diabetes (Pi-pH hypothesis): Discrimination between effect of alloxan on mitochondrial uptake and release of Pi Inst. Pathol., Univ. Umea S-901 87 Umea Sweden Acta Endocrinologica, Supplement ( ACTA ENDOCRINOL. SUPPL. ) (Denmark) \*carbonyl cyanide 4 (trifluoromethoxy)phenylhydrazone; \*acetic acid; \* alloxan; \*cysteine; \*mersalyl; \*oligomycin; \*phosphate; \*potassium; \* \*alloxan diabetes mellitus; \*liver; \*mitochondrion; \* breathing mouse; pathogenesis; ph; etiology; abstract report; in vitro study; animal experiment; endocrine system MEDICAL TERMS (UNCONTROLLED): ammonium phosphate CAS REGISTRY NO.: 370-86-5 (carbonyl cyanide 4 (trifluoromethoxy)phenylhydrazone); 127-08-2, 127-09-3, 64-19-7, 71-50-1 (acetic acid); 3237-50-1, 50-71-5 (alloxan); 4371-52-2, 52-89-1 , 52-90-4 (cysteine); 486-67-9, 492-18-2 (mersalyl); 1404-19-9 ( oligomycin); 14066-19-4, 14265-44-2 (phosphate); 7440-09-7 (potassium); 83-79-4 (rotenone); 110-15-6 (succinic acid SECTION HEADINGS: 037 Drug Literature Index 9/9/5 (Item 1 from file: 94)

DIALOG(R) File 94: JICST-EPlus

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00066385 JICST ACCESSION NUMBER: 85A0189455 FILE SEGMENT: JICST-E

# Studies on isopropanol metabolism and poisoning.

IDOTA SACHIKO (1)

(1) Nihon Univ., School of Medicine

Nichidai Igaku Zasshi (Journal of Nihon University Medical Association),

1985, VOL.44, NO.1, PAGE.39-47, FIG.12, TBL.3, REF.20

CODEN: NICHA JOURNAL NUMBER: F0911AAO ISSN NO: 0029-0424

UNIVERSAL DECIMAL CLASSIFICATION: 615.917 616.39-099

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

'ASRC Searcher: Jeanne Horrigan

Serial 10/089835 February 27, 2006

MEDIA TYPE: Printed Publication

DESCRIPTORS: rat; drug poisoning; alcohol dehydrogenase; tissue concentration; human(primates); liver; blood concentration; starvation; expiratory excretion; diabetes mellitus; oral administration; aliphatic alcohol; aliphatic ketone; deoxysugar; nitrogen heterocyclic compound

BROADER DESCRIPTORS: Myomorpha; Rodentia; Mammalia; Vertebrata; animal; poisoning(disease); disease; alcohol oxidoreductase; oxidoreductase; enzyme; concentration(ratio); degree; bile duct system; digestive organ; malnutrition; nutrition disorder; disorder/trouble/obstacle; metabolic disease; excretion; administration route; administration(biology); alcohol; hydroxy compound; ketone; carbonyl compound; carbohydrate; heterocyclic compound
CLASSIFICATION CODE(S): GZ02030Y; GD06010Q

Serial 10/089835 February 27, 2006

- File 387: The Denver Post 1994-2006/Feb 24
  - (c) 2006 Denver Post
- File 471: New York Times Fulltext 1980-2006/Feb 27
  - (c) 2006 The New York Times
- File 492:Arizona Repub/Phoenix Gaz 19862002/Jan 06
  - (c) 2002 Phoenix Newspapers
- File 494:St LouisPost-Dispatch 1988-2006/Feb 26
  - (c) 2006 St Louis Post-Dispatch
- File 631:Boston Globe 1980-2006/Feb 24
  - (c) 2006 Boston Globe
- File 633: Phil. Inquirer 1983-2006/Feb 23
  - (c) 2006 Philadelphia Newspapers Inc
- File 638: Newsday/New York Newsday 1987-2006/Feb 25
  - (c) 2006 Newsday Inc.
- File 640:San Francisco Chronicle 1988-2006/Feb 26
  - (c) 2006 Chronicle Publ. Co.
- File 641: Rocky Mountain News Jun 1989-2006/Feb 27
  - (c) 2006 Scripps Howard News
- File 702:Miami Herald 1983-2006/Feb 24
  - (c) 2006 The Miami Herald Publishing Co.
- File 703:USA Today 1989-2006/Feb 24
  - (c) 2006 USA Today
- File 704: (Portland) The Oregonian 1989-2006/Feb 26
  - (c) 2006 The Oregonian
- File 713:Atlanta J/Const. 1989-2006/Feb 26
  - (c) 2006 Atlanta Newspapers
- File 714: (Baltimore) The Sun 1990-2006/Feb 27
  - (c) 2006 Baltimore Sun
- File 715: Christian Sci. Mon. 1989-2006/Feb 27
  - (c) 2006 Christian Science Monitor
- File 725: (Cleveland) Plain Dealer Aug 1991-2006/Feb 26
  - (c) 2006 The Plain Dealer
- File 735:St. Petersburg Times 1989- 2006/Feb 26
  - (c) 2006 St. Petersburg Times
- File 476: Financial Times Fulltext 1982-2006/Feb 28
  - (c) 2006 Financial Times Ltd
- File 477: Irish Times 1999-2006/Feb 27
  - (c) 2006 Irish Times
- File 710: Times/Sun. Times (London) Jun 1988-2006/Feb 27
  - (c) 2006 Times Newspapers
- File 711:Independent (London) Sep 1988-2006/Feb 27
  - (c) 2006 Newspaper Publ. PLC
- File 756: Daily/Sunday Telegraph 2000-2006/Feb 27
  - (c) 2006 Telegraph Group
- File 757:Mirror Publications/Independent Newspapers 2000-2006/Feb 27
  - (c) 2006
- Set Items Description
- S1 10407 CYANIDE OR CYANIDES OR CARBON()NITRIDE OR HYDROCYANIC()ACID OR ISOCYANIDE OR NITRILE()ANION? ? OR CYANAMIDE OR FERROCYAN-IDE
- S2 0 RN=57-12-5
- 337 ISOPROPANOL OR ISOPROPYL()ALCOHOL OR 1() (METHYLETHANOL OR METHYL()ETHANOL OR METHYLETHYL()ALCOHOL OR METHYL()ETHYL()ALCOHOL)
  OHOL) OR 2() (PROPANOL OR HYDROXYPROPANE OR PROPYL()ALCOHOL)
- S4 295 ALCOJEL OR ALCOSOLVE OR AUTOSEPT OR AVANTIN OR AVANTINE OR COMBI()SCHUTZ OR DIMETHYLCARBINOL OR DIMETHYL()CARBINOL OR HA-

Serial 10/089835 February 27, 2006

```
RTOSOL OR IMSOL OR ISO() (PROPANOL OR PROPYL() ALCOHOL) OR ISOP-
             ROPYL()ALCOHOL OR ISOHOL OR LUTOSOL OR PETROHOL OR PROPOL OR -
             SEC() (PROPANO
                (CH3) 2CH20 OR RN=67-63-0
S5
S6
                DIABET???
        98637
S7
       818807
                BREATH? OR EXHALE? ? OR EXHALING OR EXHALATION OR EXPIR?
S8
                S1:S4 AND S6 AND S7
           11
S9
           10
                RD (unique items) [not relevant]
File 149:TGG Health&Wellness DB(SM) 1976-2006/Feb W2
         (c) 2006 The Gale Group
File 135: NewsRx Weekly Reports 1995-2006/Feb W3
         (c) 2006 NewsRx
File 129:PHIND(Archival) 1980-2006/Feb W3
         (c) 2006 T&F Informa UK Ltd
File 148: Gale Group Trade & Industry DB 1976-2006/Feb 24
         (c) 2006 The Gale Group
File 47:Gale Group Magazine DB(TM) 1959-2006/Feb 24
         (c) 2006 The Gale group
File 621: Gale Group New Prod. Annou. (R) 1985-2006/Feb 24
         (c) 2006 The Gale Group
File 16:Gale Group PROMT(R) 1990-2006/Feb 27
         (c) 2006 The Gale Group
File 160: Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 484:Periodical Abs Plustext 1986-2006/Feb W3
         (c) 2006 ProQuest
File 141:Readers Guide 1983-2004/Dec
         (c) 2005 The HW Wilson Co
File 369: New Scientist 1994-2006/Aug W4
         (c) 2006 Reed Business Information Ltd.
File 370:Science 1996-1999/Jul W3
         (c) 1999 AAAS
File 636:Gale Group Newsletter DB(TM) 1987-2006/Feb 24
         (c) 2006 The Gale Group
File 635: Business Dateline (R) 1985-2006/Feb 25
         (c) 2006 ProQuest Info&Learning
Set
        Items
                Description
                CYANIDE OR CYANIDES OR CARBON() NITRIDE OR HYDROCYANIC() ACID
S1
        16601
              OR ISOCYANIDE OR NITRILE() ANION? ? OR CYANAMIDE OR FERROCYAN-
             IDE
S2
                RN=57-12-5
            0
S3
                ISOPROPANOL OR ISOPROPYL() ALCOHOL OR 1() (METHYLETHANOL OR -
             METHYL()ETHANOL OR METHYLETHYL()ALCOHOL OR METHYL()ETHYL()ALC-
             OHOL) OR 2() (PROPANOL OR HYDROXYPROPANE OR PROPYL()ALCOHOL)
S4
                ALCOJEL OR ALCOSOLVE OR AUTOSEPT OR AVANTIN OR AVANTINE OR
             COMBI()SCHUTZ OR DIMETHYLCARBINOL OR DIMETHYL()CARBINOL OR HA-
             RTOSOL OR IMSOL OR ISO() (PROPANOL OR PROPYL() ALCOHOL) OR ISOP-
             ROPYL()ALCOHOL OR ISOHOL OR LUTOSOL OR PETROHOL OR PROPOL OR -
             SEC() (PROPANO
S5
                (CH3) 2CH20 OR RN=67-63-0
S6
       305083
                DIABET???
                BREATH? OR EXHALE? ? OR EXHALING OR EXHALATION OR EXPIR?
S7
       881219
                S1:S4(S)S6(S)S7
S8
            6
S9
                RD (unique items)
            4
                S1:S4 AND S6 AND S7
S10
          117
```

S11	102753	S6/TI OR S7/TI	
S12	10	S10 AND S11	
S13	10	S12 NOT S8	
S14	6	RD (unique items)	<pre>[not relevant]</pre>
S15	58	S6/TI AND S7/TI	
S16	0	S15 AND S1:S4	

9/3,K/2 (Item 2 from file: 149)

DIALOG(R) File 149:TGG Health & Wellness DB(SM)

(c) 2006 The Gale Group. All rts. reserv.

01947513 SUPPLIER NUMBER: 66123992 (USE FORMAT 7 OR 9 FOR FULL TEXT)

# Toxic Alcohol Poisoning: When to Suspect-Keys to Diagnosis.

ERICKSON, TIMOTHY

Consultant, 40, 10, 1845

Sept, 2000

PUBLICATION FORMAT: Magazine/Journal; Refereed ISSN: 0010-7069

LANGUAGE: English RECORD TYPE: Fulltext TARGET AUDIENCE: Professional WORD COUNT: 3897 LINE COUNT: 00337

... not cause acidosis, but it does increase the osmolal gap (Table 2).

Laboratory clues. Suspect isopropanol ingestion in any comatose patient who has an acetone-like odor of the breath, ketones on dipstick urinalysis, and in whom diabetic ketoacidosis has been ruled out Because isopropanol is catabolized to acetone, the serum level of acetone may be used to quantify the amount of isopropanol ingested.

DIETHYLENE GLYCOL

This highly toxic organic solvent is used in antifreeze, brake fluid, window...or acetone. Coma usually develops when blood levels of **isopropanol** exceed 100 mg/dL.

\* Suspect isopropanol ingestion in any comatose patient who has an acetone-like odor of the breath , ketones on dipstick urinalysis, and in whom diabetic ketoacidosis has been ruled out.

9/3,K/3 (Item 3 from file: 149)

DIALOG(R) File 149:TGG Health & Wellness DB(SM)

(c) 2006 The Gale Group. All rts. reserv.

Oliver Supplier Number: 06751975 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Alcoholic emergencies. (includes related articles) (Emergency Handbook)

Lerner, William D.; Marx, John A.; Mathews, James J., IV; Lenk, Eric

Patient Care, v22, n10, p112(13)

May 30, 1988

PUBLICATION FORMAT: Magazine/Journal ISSN: 0031-305X LANGUAGE: English RECORD TYPE: Fulltext TARGET AUDIENCE: Professional

WORD COUNT: 5469 LINE COUNT: 00571

... weakly positive in alcoholic ketoacidosis. Acetone in the urine is consistent with alcoholic ketoacidosis or isopropyl alcohol intoxication, but the anion gap is increased only in ketoacidosis. Elevated urinary glucose and ketones suggest diabetic ketoacidosis; alcoholic ketoacidosis is not associated with marked hyperglycemia.

Treatment consists of volume replacement with...

## FOREIGN AND INTERNATIONAL PATENTS

```
File 350: Derwent WPIX 1963-2006/UD, UM & UP=200613
         (c) 2006 Thomson Derwent
File 347: JAPIO Nov 1976-2005/Oct (Updated 060203)
         (c) 2006 JPO & JAPIO
Set
                Description
        Items
S1
        23556
                CYANIDE OR CYANIDES OR CARBON() NITRIDE OR HYDROCYANIC() ACID
              OR ISOCYANIDE OR NITRILE() ANION? ? OR CYANAMIDE OR FERROCYAN-
             IDE
S2
                RN=57-12-5
            0
S3
                ISOPROPANOL OR ISOPROPYL() ALCOHOL OR 1() (METHYLETHANOL OR -
             METHYL()ETHANOL OR METHYLETHYL()ALCOHOL OR METHYL()ETHYL()ALC-
             OHOL) OR 2() (PROPANOL OR HYDROXYPROPANE OR PROPYL() ALCOHOL)
S4
                ALCOJEL OR ALCOSOLVE OR AUTOSEPT OR AVANTIN OR AVANTINE OR
             COMBI() SCHUTZ OR DIMETHYLCARBINOL OR DIMETHYL() CARBINOL OR HA-
             RTOSOL OR IMSOL OR ISO() (PROPANOL OR PROPYL() ALCOHOL) OR ISOP-
             ROPYL() ALCOHOL OR ISOHOL OR LUTOSOL OR PETROHOL OR PROPOL OR -
             SEC() (PROPANO
S5
            0
                (CH3) 2CH20 OR RN=67-63-0
S6
        39419
                DIABET???
S7
        37294
                BREATH? OR EXHALE? ? OR EXHALING OR EXHALATION OR EXPIR?
S8
                $1:$4 AND $6 AND $7
8/3, K/1
            (Item 1 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.
015470456
WPI Acc No: 2003-532602/200350
Related WPI Acc No: 2003-441447
XRAM Acc No: C03-143818
  Acetone-specific enzyme system, for detecting acetone in biological or
  environmental sample, for disease detection, includes enzyme that targets
  acetone as substrate, coupled to detectable signal mediator
Patent Assignee: DOW GLOBAL TECHNOLOGIES INC (DOWC ); ALLEN J R (ALLE-I);
  CRANLEY P E (CRAN-I); DANOWSKI K L (DANO-I); MCINTYRE J A (MCIN-I);
  MILLER T E (MILL-I); ROSNER B M (ROSN-I); STRICKLAND A D (STRI-I);
  SUBRAMANIAN V (SUBR-I); SUN L (SUNL-I)
Inventor: ALLEN J R; CRANLEY P E; DANOWSKI K L; MCINTYRE J A; MILLER T E;
  ROSNER B M; STRICKLAND A D; SUBRAMANIAN V; SUN L
Number of Countries: 098 Number of Patents: 005
Patent Family:
Patent No
              Kind
                             Applicat No
                                            Kind
                     Date
                                                   Date
                                                            Week
WO 200339483
              A2 20030515 WO 2002US36028 A
                                                 20021108 200350
AU 2002348199 A1
                   20030519 AU 2002348199
                                            Α
                                                 20021108 200464
EP 1523551
               A2
                   20050420 EP 2002784423
                                             Α
                                                 20021108 200527
                             WO 2002US36028 A
                                                 20021108
US 20050084921 A1
                    20050421
                             US 2001332349
                                             Ρ
                                                  20011109 200531
                             WO 2002US36028 A
                                                 20021108.
                             US 2004494923
                                             A
                                                 20040505
MX 2004004441 A1 20041101
                             WO 2002US36028
                                             Α
                                                 20021108 200558
                             MX 20044441
                                             Α
                                                 20040510
Priority Applications (No Type Date): US 2001332349 P 20011109; US
  2004494923 A 20040505
Patent Details:
Patent No Kind Lan Pg
                         Main IPC
                                     Filing Notes
```

WO 200339483 A2 E 181 A61K-000/00 Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ YU ZA ZM ZW Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW AU 2002348199 A1 A61K-000/00 Based on patent WO 200339483 EP 1523551 A2 E C12N-009/02 Based on patent WO 200339483 Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR US 20050084921 A1 C12Q-001/26 Provisional application US 2001332349 MX 2004004441 A1 A61K-000/00000 Based on patent WO 200339483 Abstract (Basic):

- ... PTA-4779), having NAD+-dependent S-ADH activity, having the ability to reduce acetone to **isopropanol**, and having specific activity for ketones and secondary **alcohols**, the protein having...
- ...a) for the oxidation of **isopropanol** to acetone, a pH optimum of 7.8, and having, for the oxidation of **alcohols**...
- ...b) for the reduction of acetone to **isopropanol**, a pH optimum of 6.2, an apparent Km of 144+/-18 micro-M, an...2-10 ppm. (II) is also useful for monitoring a subject's medical condition, especially **diabetes** or weight loss (all claimed...
- ...is particularly suitable for detecting acetone in environmental or biological samples, for e.g. mammalian **breath** samples. The enzyme systems are useful in in-home device for determination of acetone levels in human biological samples, such as **breath**, saliva or urine, for monitoring subject wellness and/or, for monitoring subject compliance with weight...
- ...II) are useful for monitoring ketogenic diet-utilizing subjects for seizure control, for detecting gestational diabetes, for aiding in type I diabetes monitoring or type II diabetes management, for monitoring client progress in weight loss and eating disorders counseling and in high...
- ...for assisting in livestock management. (II) enables subjects suffering from acetone-related conditions, such as **diabetes**, to monitor weight loss and/or the onset of ketoacidosis, as well as to non...

## 8/3,K/2 (Item 2 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2006 Thomson Derwent. All rts. reserv.

015268714 \*\*Image available\*\*
WPI Acc No: 2003-329643/200331

XRAM Acc No: C03-085676 XRPX Acc No: N03-263758

Remote physiological parameter monitoring method e.g. for monitoring blood pressure, involves attaching biointerface head comprising sensor to patient's body and transmitting data from biointerface head to control module

Patent Assignee: PHILOMETRON INC (PHIL-N); DRINAN D (DRIN-I); EDMAN C F

(EDMA-I); MERZ D (MERZ-I)

Inventor: DRINAN D; EDMAN C; MERZ D; EDMAN C F Number of Countries: 100 Number of Patents: 006

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
US 20030004403 A1 20030102 US 2001301897 P 20010629 200331 B

```
US 200132765
                                                20011029
WO 200349592
              A2 20030619 WO 2002US20006 A
                                                20020621 200341
TW 552126
              Α
                  20030911 TW 2002114326
                                                20020628 200417
                                            Α
                  20030623 AU 2002365064
AU 2002365064 A1
                                            Α
                                                20020621 200420
EP 1411826
              A2
                  20040428 EP 2002802911
                                           Α
                                                20020621 200429
                            WO 2002US20006 A
                                                20020621
JP 2005511184 W
                  20050428 WO 2002US20006 A
                                                20020621 200530
                            JP 2003550645
                                          Α
                                                20020621
Priority Applications (No Type Date): US 2001301897 P 20010629; US
  200132765 A 20011029
Patent Details:
Patent No Kind Lan Pg
                        Main IPC
                                    Filing Notes
                    29 A61B-005/00 Provisional application US 2001301897
US 20030004403 A1
WO 200349592 A2 E
                      A61B-000/00
   Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
   CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
   IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
   PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
   Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
   IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW
TW 552126
             Α
                      A61B-005/00
AU 2002365064 A1
                      A61B-005/00
                                    Based on patent WO 200349592
EP 1411826
           A2 E
                     A61B-005/00
                                    Based on patent WO 200349592
   Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
   LI LT LU LV MC MK NL PT RO SE SI TR
JP 2005511184 W
                   39 A61B-005/00
                                    Based on patent WO 200349592
Abstract (Basic):
           temperature of premature infant or infant, for measuring
    glucose, fructosime, hemoglobin 1 ac level in diabetic patient, for
   monitoring drugs such as cocaine, heroin, marijuana, amphetamines and
```

...content within saliva for measuring dietary/nutritional status e.g.. catabolic dietary deficiency, for checking **breath** acceptability in social settings, for measuring oxygen consumption and consumption of gases such as **cyanide**, Lewisite or specific toxin, for augmenting

hearing and in veterinary application for monitoring general health...

8/3,K/3 (Item 3 from file: 350)

other illicit compounds and ...

DIALOG(R) File 350: Derwent WPIX

(c) 2006 Thomson Derwent. All rts. reserv.

015251680

WPI Acc No: 2003-312606/200330

XRAM Acc No: C03-081793

Composition useful for the treatment of e.g. diabetes , comprises particles comprised of a glucagon-like peptide-1 (GLP-1) compound complexed with a basic polypeptide

Patent Assignee: LILLY & CO ELI (ELIL ); DEFELIPPIS M R (DEFE-I); HAVEL H A (HAVE-I); MACE K F (MACE-I); NG K (NGKK-I); SARIN V K (SARI-I) Inventor: DEFELIPPIS M R; HAVEL H A; MACE K F; NG K; SARIN V K Number of Countries: 101 Number of Patents: 005

Patent Family:

Patent No Kind Date Applicat No Kind Date Week WO 200298348 A2 20021212 WO 2002US15137 A 20020521 200330 B AU 2002308706 A1 20021216 AU 2002308706 A 20020521 200452

US 20050043228 A1 20050224 US 2001295282 P 20010601 200515 WO 2002US15137 A 20020521 US 2003477034 A 20031106 JP 2005506956 W 20050310 WO 2002US15137 A 20020521 200518

JP 2005506956 W 20050310 WO 2002US15137 A 20020521 200518 JP 2003501390 A 20020521

EP 1542712 A2 20050622 EP 2002776560 A 20020521 200541 WO 2002US15137 A 20020521

Priority Applications (No Type Date): US 2001295282 P 20010601; US 2003477034 A 20031106

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200298348 A2 E 45 A61K-000/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

AU 2002308706 A1 A61K-000/00 Based on patent WO 200298348

US 20050043228 A1 A61K-038/26 Provisional application US 2001295282

JP 2005506956 W 128 A61K-038/26 Based on patent WO 200298348

EP 1542712 A2 E A61K-038/16 Based on patent WO 200298348
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI
LU MC NL PT SE TR

Abstract (Basic):

... mixing the GLP-1 solution with the basic polypeptide solution. The alcohol is ethanol, propanol, isopropanol and/or methanol (preferably ethanol...

...In the preparation of a medicament for the treatment of **diabetes**, hyperglycemia, obesity, irritable bowel syndrome, myocardial infarction and stroke in a mammal (claimed...

Extension Abstract:

The aerosol concentration was 200 micrograms/kg. The inhaled dose was calculated by determining the **breathing** volume of individual monkeys and multiplying that by the aerosization concentration. The deposited dose was...

# 8/3,K/4 (Item 4 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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013638685 \*\*Image available\*\*
WPI Acc No: 2001-122893/200113

XRAM Acc No: C01-035617

New dihydropyridine carboxylic acid derivatives are N-type calcium channel inhibitors for treating e.g. cerebral ischemic disorders, neurodengenerative disorders and pain

Patent Assignee: AJINOMOTO CO INC (AJIN )

Inventor: HAGIHARA M; KAJIGAYA Y; KITO M; KOGANEI H; MASUZAWA Y; MATSUEDA H; NAKANISHI C; NIWA S; OHNO S; ONO Y; TAKAHARA A; TAKEDA T; YAMAMOTO T Number of Countries: 095 Number of Patents: 005

Patent Family:

Patent No Kind Date Applicat No Kind Date Week WO 200078719 A1 20001228 WO 2000JP4105 A 20000622 200113 B

AU 200055682 20010109 AU 200055682 20000622 200122 Α EP 1191021 A1 20020327 EP 2000940810 A 20000622 200229 WO 2000JP4105 A 20000622 US 20020147222 A1 20021010 WO 2000JP4105 Α 20000622 200269 US 200122874 Α 20011220 JP 2001504886 X 20030114 WO 2000JP4105 Α 20000622 200316 JP 2001504886 Α 20000622

Priority Applications (No Type Date): JP 99177491 A 19990623 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes WO 200078719 A1 J 152 C07D-211/90

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200055682 A C07D-211/90 Based on patent WO 200078719
EP 1191021 A1 E C07D-211/90 Based on patent WO 200078719
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

... damage (e.g. due to head trauma), pain (e.g. pain and numbness due to **diabetic** occlusive vasculitis, post-operative pain, migraine or internal organ disorders), bronchial asthma, stress related disorders (such as irritable colitis and unstable angina), breathing disorders and ethanol addiction...

#### Extension Abstract:

... mg), 3-aminocrotonic acid 2-cyanoethyl (389 mg) and 3-chlorobenzoaldehyde (0.285 ml) in 2 - propanol (20 ml) were refluxed at 80degreesC for 2 nights and the mixture was worked up...

```
February 27, 2006
File 349:PCT FULLTEXT 1979-2006/UB=20060223,UT=20060216
         (c) 2006 WIPO/Univentio
File 324:German Patents Fulltext 1967-200552
         (c) 2006 Univentio
File 348: EUROPEAN PATENTS 1978-2006/Feb W03
         (c) 2006 European Patent Office
                Description
Set
        Items
S1
        34469
                CYANIDE OR CYANIDES OR CARBON() NITRIDE OR HYDROCYANIC() ACID
              OR ISOCYANIDE OR NITRILE() ANION? ? OR CYANAMIDE OR FERROCYAN-
             IDE
S2
            0
                RN=57-12-5
S3
       121115
                ISOPROPANOL OR ISOPROPYL()ALCOHOL
S4
                ALCOJEL OR ALCOSOLVE OR AUTOSEPT OR AVANTIN OR AVANTINE OR
            1
             COMBI () SCHUTZ
S5
          232
               DIMETHYLCARBINOL OR DIMETHYL()CARBINOL
S6
                HARTOSOL OR IMSOL
S7
                ISO()(PROPANOL OR PROPYL()ALCOHOL) OR ISOPROPYL()ALCOHOL
       130175
S8
          277
                ISOHOL OR LUTOSOL OR PETROHOL OR PROPOL
S9
           52
                SEC()(PROPANOL OR PROPYL()ALCOHOL) OR TAKINEOCOL OR TOKUSO-
             () IPA OR VIRAHOL
S10
        55328
               DIABET???
                BREATH? OR EXHALE? ? OR EXHALING OR EXHALATION OR EXPIR?
S11
       393187
S12
        22890
                METHYLETHANOL OR METHYL() ETHANOL
S13
          525
                METHYLETHYL() ALCOHOL OR METHYL() ETHYL() ALCOHOL
S14
       179110
                PROPANOL OR HYDROXYPROPANE OR PROPYL()ALCOHOL
                S1 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S12 OR S13
S15
       209208
             OR S14
              S15 (50N) S10 (50N) S11
S16
            4
S17
           12
                S10(S)S11(S)S15
S18
            8
                S17 NOT S16 [not relevant]
S19
           12
                S15(100N)S10(100N)S11
S20
            6
                S19 NOT S16:S17
            0 S7/TI AND S15(50N)S10
S21
            2
S22
              S11/TI AND S15(50N)S10
S23
            0 '
               S22 NOT (S16:S17 OR S19)
 16/3,AB,K/1
                 (Item 1 from file: 349)
DIALOG(R) File 349: PCT FULLTEXT
(c) 2006 WIPO/Univentio. All rts. reserv.
01009846
AN ENZYME-BASED SYSTEM AND SENSOR FOR MEASURING ACETONE
SYSTEME A BASE D'ENZYMES ET CAPTEUR SERVANT A DETECTER L'ACETONE
Patent Applicant/Assignee:
  DOW GLOBAL TECHNOLOGIES INC, Washington Street, 1790 Building, Midland,
    MI 48674, US, US (Residence), US (Nationality), (For all designated
    states except: US)
Patent Applicant/Inventor:
  CRANLEY Paul E, 56 Yaupon Court, Lake Jackson, TX 77566, US, US
    (Residence), US (Nationality), (Designated only for: US)
  ALLEN Jeffrey R, 14702 Fairtree Terrace, Poway, CA 92064, US, US
    (Residence), US (Nationality), (Designated only for: US)
  DANOWSKI Kristine L, 122 Vail Street, Midland, MI 48642, US, US
    (Residence), US (Nationality), (Designated only for: US)
  MCINTYRE James A, 2115 Burlington Court, Midland, MI 48642, US, US
    (Residence), CA (Nationality), (Designated only for: US)
  MILLER Theodore E Jr, 5902 Woopark, Midland, MI 48640, US, US (Residence)
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indication of the need...

, US (Nationality), (Designated only for: US) ROSNER Bettina M, 8870 Villa La Jolla Drive, Apartment 310, La Jolla, CA 92037, US, US (Residence), US (Nationality), (Designated only for: US) STRICKLAND Alan D, 115 Hickory, Lake Jackson, TX 77566, US, US (Residence), US (Nationality), (Designated only for: US) SUBRAMANIAN Venkiteswaran, 3980 Corte Mar De Hierba, San Diego, CA 92130, US, US (Residence), US (Nationality), (Designated only for: US) SUN Larry, 71 Royal Crescent, Sarnia, Ontario N7S 4Z4, CA, CA (Residence) , CA (Nationality), (Designated only for: US) Legal Representative: KIMBLE Karen L (agent), The Dow Chemical Company, Intellectual Property, P.O. Box 1967, Midland, MI 48641-1967, US, Patent and Priority Information (Country, Number, Date): Patent: WO 200339483 A2-A3 20030515 (WO 0339483) Application: WO 2002US36028 20021108 (PCT/WO US02036028) Priority Application: US 2001332349 20011109 Designated States: (Protection type is "patent" unless otherwise stated - for applications prior to 2004) AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ YU ZA ZM ZW (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW (EA) AM AZ BY KG KZ MD RU TJ TM Publication Language: English Filing Language: English Fulltext Word Count: 38857 English Abstract Described are enzyme systems specific for acetone and methods of using these enzyme systems to detect acetone in biological or environmental samples. Biosensors containing these enzyme systems are disclosed, in which detection of acetone may be achieved by linking electrochemical, photometric, or other detection means to one or more acetone-specific enzyme reactions or pathways. Methods of using such acetone-specific biosensors include subject management of weight loss, disease detection, and bioavailability monitoring of therapeutics. Fulltext Availability: Detailed Description Detailed Description 9) treatment with nucleoside analogs (for example, in anti-retroviral therapy for HIV); I 0) isopropanol ingestion or ...and 12) salicylate intoxication. In these conditions, too, acetone can be detected by, for example, breath analysis of children or adults. Thus, detection of acetone can be useful in a... ...important applications. For example, medical reports have identified obesity as a primary risk factor in diabetes , hypertension, coronary heart disease, hypercholesterolemia and stroke. In many cases of obesity, a controlled weightSimilarly, detection of acetone can be used to alert diabetic subjects to the onset of ketoacidosis or to obtain a preliminary

ASRC Searcher: Jeanne Horrigan Serial 10/089835 February 27, 2006 16/3,AB,K/2 (Item 2 from file: 349) DIALOG(R) File 349: PCT FULLTEXT (c) 2006 WIPO/Univentio. All rts. reserv. 00386084 OPTICAL NON-RADIOACTIVE BREATH ANALYSIS ANALYSE D'HALEINE A L'AIDE DE MOYENS OPTIQUES NON RADIOACTIFS Patent Applicant/Assignee: BATTELLE MEMORIAL INSTITUTE, Inventor(s): TOTH James J, SHARPE Steven W, THRALL Karla D, Patent and Priority Information (Country, Number, Date): Patent: WO 9726827 A1 19970731 Application: WO 97US1126 19970124 (PCT/WO US9701126) Priority Application: US 96592103 19960126 Designated States: (Protection type is "patent" unless otherwise stated - for applications prior to 2004) CA JP AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE Publication Language: English Fulltext Word Count: 4361 English Abstract The invention is a method of measuring ammonia in a breath sample with a room temperature, near infrared laser. The invention is particularly useful for indicating the presence and activity of an intragastrointestinal Helicobacter pylori or other ammonia compound producing metabolisis. Fulltext Availability: Detailed Description Detailed Description radioactive biomarkers in a rough vacuum with infrared light. In this patent application, the word breath is a vapor that includes both exhaled air from the lungs or perspiration vapor or sweat vapor transpired through the skin. BACKGROUND OF THE INVENTION The diagnosis of pathologies and disease by analysis of exhaled air has been postulated since the time of Hypocrites (ca., 400 BQ.' It is a... ...number of pathologies are associated with the presence of distinct endogenous volatile species in the breath . For instance, both diabetes mellitus and pancreatitis, when left untreated have been associated with the production of 2,1......dietary imbalance.' Then acetone can be readily detected by its characteristic sweet odor in the breath . Methane and hydrogen are indicative of intestinal disorders.' Hydrogen peroxide is indicative of impaired pulmonary... ... The combination of finding several species simultaneously (i.e., acetone, methyl ethyl ketone and n- propanol ) has been statistically

16/3, AB, K/3(Item 3 from file: 349) DIALOG(R) File 349: PCT FULLTEXT

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BREATH ALCOHOL STORAGE CONTAINER AND METHOD OF USING SAME RECIPIENT DE CONSERVATION DE L'ALCOOL DU SOUFFLE

correlated with lung cancer in humans.' It is further known...

Patent Applicant/Assignee: ADRIAN Werner Karl, Inventor(s): ADRIAN Werner Karl,

Patent and Priority Information (Country, Number, Date):

WO 8600712 A1 19860130

Application: WO 85US1395 19850717 (PCT/WO US8501395)

Priority Application: US 84587 19840717

Designated States:

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AT BE CH DE FR GB IT LU NL SE Publication Language: English Fulltext Word Count: 3616 English Abstract

An improved storage container for alcohol and other organic substances in breath samples, comprising a container with openings at opposite ends thereof, and an alcohol-storing compound (13) retained within the container. In the preferred embodiment, the alcohol-storing compound is mainly Al2O3, and seals (15) extend across the openings at each end of the container, the seals each comprising a resilient membrane (20) adapted for non-unsealing penetration by a hypodermic needle (30, 31). A moisture-sensitive compound (14) which changes color in response to the moisture in a breath sample is also contained in the container, for indicating when the container has been used. A waxed surface (35) is provided on the outside of the container for receiving the thumb or finger print of the individual whose breath is being sampled, along with means for protecting the waxed surface, whereby positive identification of the sample is achieved.

Fulltext Availability: Detailed Description

Detailed Description

... denoting ethanol and other substances which are to be stored, including other vapours occurring in breath samples, such as acetone, methanol, isopropanol, etc.. In conducting breath analysis, ... PCT/US85/01395 or contaminated spirits, and in acetone, which may be present in the breath of diabetics or dieters, 2\* Descri2tion of the Prior Art

Breath alcohol storage containers in the prior art generally either use indium bags or comprise an...

...compound held in a container, the container having openings at opposite ends to permit the breath sample to be flowed through it. An example is the container described in United States...

16/3,AB,K/4 (Item 1 from file: 348)

DIALOG(R) File 348: EUROPEAN PATENTS

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Method for analysis of expired gas

Verfahren zur Analyse von ausgeatmetem Gas

Procede d'analyse de gaz exhale

PATENT ASSIGNEE:

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February 27, 2006 Laaksonen, Reijo, Himminpolku 4, 37500 Lempaala, (FI) LEGAL REPRESENTATIVE: Ohman, Ann-Marie (82111), Turun Patenttitoimisto Oy, P.O. Box 99, 20521 Turku, (FI) PATENT (CC, No, Kind, Date): EP 1043581 Al 001011 (Basic) APPLICATION (CC, No, Date): EP 660060 000329; PRIORITY (CC, No, Date): FI 99771 990408 DESIGNATED STATES: DE; FR; GB EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI INTERNATIONAL PATENT CLASS (V7): G01N-021/35; G01J-003/453 ABSTRACT EP 1043581 A1 The invention comprises a method for detecting and measuring volatile components in expired gas by sampling the expired gas containing said volatile components; passing infrared radiation from an interferometer through the sample; detecting infrared radiation transmitted from the sample to produce a signal characteristic for said volatile components in the sample; and processing said signal and a set of single component reference library spectra of pure molecular gases in order to detect and calculate the amount of said volatile components in the blood of an individual expiring said gas, comprising the use of a low resolution FT-IR spectrometer in said detecting and processing.

ABSTRACT WORD COUNT: 104

NOTE: Figure number on first page: NONE

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Available Text Language Update Word Count
CLAIMS A (English) 200041 343
SPEC A (English) 200041 4761
Total word count - document A 5104
Total word count - document B 0
Total word count - documents A + B 5104

... SPECIFICATION such as quick ambulatory use for intoxicated patients. Definitions and preferred embodiments

Volatile components in **expired** gas can include organic solvents e.g. methanol, ethanol, isopropanol, acetone, toluene, various components of paints as well as methane, butane, ketones and ammonia. These compounds can appear in the **breath** when they have been consumed and/or inhaled intentionally or unintentionally, or because of a pathological disorder (e.g. acetone in the **breath** of patients with **diabetes**).

Alternatively compounds to be detected and processed can involve substances intentionally administered for varying purposes...

- ...g. testing renal function; anesthetics can be analyzed by the method from inspired and/or **expired** gases for purposes of monitoring the anesthesia of a patient; and test compounds containing carbon...
- ...to study how it is metabolized to 13)CO2)), which can be analyzed from the **expired** gas since it can be differentiated from 12)CO2)) by FT-IR. The invention will...

20/3,AB,K/6 (Item 4 from file: 348)

DIALOG(R) File 348: EUROPEAN PATENTS

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Expired gas analytical method and device.

Verfahren und Vorrichtung zur Analyse von ausgeatmetem Gas.

Procede et appareil d'analyse de gaz expire.

## PATENT ASSIGNEE:

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Dipl.-Ing. H. Hauck, Dipl.-Ing. E. Graalfs, Dipl.-Ing. W. Wehnert, Dr.-Ing. W. Doring (100551), Neuer Wall 41, D-20354 Hamburg, (DE) PATENT (CC, No, Kind, Date): EP 574027 A2 931215 (Basic)

EP 574027 A3 950906

APPLICATION (CC, No, Date): EP 93109614 930614;

PRIORITY (CC, No, Date): JP 92178994 920612

DESIGNATED STATES: CH; DE; FR; GB; IT; LI

INTERNATIONAL PATENT CLASS (V7): G01N-030/46; G01N-033/497;

ABSTRACT EP 574027 A2

To expedite **breath** gas analysis using gas chromatography, a sample from a patient is passed to two columns (51,52) maintained under different chromatographic conditions eg. low and high temperature. The effluent from both columns is then passed to a detector (53). In this way components such as acetone and 4-heptanone which have very different retention times on a single column, can be determined efficiently in a short time without deterioration of chromatographic resolution. The system is used in clinical analysis. (see image in original document) ABSTRACT WORD COUNT: 87

LANGUAGE (Publication, Procedural, Application): English; English; English; FULLTEXT AVAILABILITY:

Available Text Language Update Word Count CLAIMS A (English) EPABF1 288
SPEC A (English) EPABF1 5022
Total word count - document A 5310
Total word count - document B 0
Total word count - documents A + B 5310
...SPECIFICATION to the present invention.

Fig. 2(a) is a gas chromatogram obtained by separating an **expired** gas sample with a column for separating acetone, and Fig. 2(b) a gas chromatogram...

- ...acetone among the conventional three components in ketone body shows higher concentration in measurement of **expired** gas, we measured acetone as a representative component of the three components. Measurement of ketone...
- ...or urine takes much cost and labor while the analysis of ketone body by using **expired** gas is quite simple. Hence, measuring acetone and 4-heptanone in **expired** gas has a large significance for diagnosis of **diabetes** and as a monitor for therapy.
  - Fig. 2(a) shows the gas chromatogram obtained by measuring acetone and 4-heptanone in **expired** gas with using an **expired** gas analytical device (a single column: column temperature of 60(degree)C) previously developed by...
- ...and peak #6 isopropanol. Fig. 2(b) is a gas chromatogram similarly obtained by the expired gas analytical device with temperature of the

single column being set to 150(degree) C...

- ...invention has been designed to solve this problem and has a characteristic in that the **expired** gas analytical device is constructed with a multi-channel style using a plurality of columns may be preferably used for examination of various diseases in addition to **diabetes**, for example, liver cirrhosis and also for examination of newborn infants. **Expired** gas of a patient with serious liver cirrhosis contains low-boiling ammonia (-33.4 (degree...
- ...such as hyperammonemia, phenylketonuria, or **iso**valericacidemia, is examined by inspecting existence of the gases in **expired** gas of the newborn infants, a low temperature column (for ammonia) and a high temperature...
- ...for the remainder) may be used to carry out measurement accurately and rapidly.

Next, the **expired** gas analytical device according to the present invention developed for use in the foregoing **expired** gas examinations will be detailed. The **expired** gas analytical device generally comprises an **expired** gas **breathe** -into part, a carrier gas feeding part, a sample measuring part, a detecting part and...